

**Geometry: 3-Dimensional Solids**  
**Tic-Tac-Toe for Student Choice Activities**

<p>1.</p> <p><b>Construct</b> a Regular <b>Polyhedron</b> out of straws.</p>	<p>2.</p> <p><b>List</b> the Seven Wonders of the World. Research and record the measurements of each. Using this information, find the surface area and volume of all Seven Wonders. Show all <b>information and calculations</b>.</p>	<p>3.</p> <p><b>Interview</b> an architect and find out how he/she uses 3-dimensional figures in his/her designs. Write a <b>paper</b> summarizing what you learned.</p>
<p>4.</p> <p>Create a <b>lesson plan</b> on Regular Polyhedrons and teach this lesson to the class.</p>	<p>5.</p> <p>Estimate the total surface area of your classroom. Then do the appropriate measurements and find the exact surface area. Compare the estimate to the exact area. Explain this process in <b>paragraph</b> form.</p>	<p>6.</p> <p>Make a <b>collage</b> of various polyhedrons. Label and give a definition of each polyhedron.</p>
<p>7.</p> <p>Make a <b>model</b> of a new 3-dimensional solid that can be classified as a polyhedron and give it a name.</p>	<p>8.</p> <p>Make a <b>cube</b>. Place the digits 1 through 8 at the corners of the cube so that the sum of the four numbers for each face (side of the cube) is 18. Show your <b>calculations</b> on a separate piece of paper.</p>	<p>9.</p> <p>Make a <b>crossword puzzle</b> using at least 20 words that relate to 3-dimensional Solids.</p>

I/we chose activities # \_\_\_\_\_, # \_\_\_\_\_, and # \_\_\_\_\_.

Name \_\_\_\_\_ Date \_\_\_\_\_ Due date \_\_\_\_\_